

Claims

1. Hinge housing (10) constructed as a push-in cup which can be installed countersunk in an opening (18) in the inner face of the wall (16a) of a door leaf (16) of a piece of furniture formed in the installation region from thin-walled metal, wherein the hinge housing has a cup part (12) produced from metal and has projecting integrally from its upper edge a fixing flange (22) which in the properly installed position on the door leaf (16) covers the region of the inner face of the door leaf adjoining the opening (18) in the door leaf and wherein the hinge housing has a liner plate (14) which is disposed between the fixing flange (22) and the inner face of the door leaf, has a corresponding opening (24) for the cup part (12) to pass through in the region of the opening (18) in the door leaf (16) and can be fixed together with the hinge housing on the inner face of the door leaf (16), characterised in that the liner plate (14) has in the edge region of its opening (24) corresponding to the opening (18) in the wall (16a) of the door leaf (16) resilient latching tabs (26) which project into the opening (18) in the door leaf (16) and which in the proper fixing position of the liner plate (14) engage around the edge region of the opening (18) in the door leaf (16) so as to latch on the inner face of the wall, that in the liner plate (14) at least two through openings (30) spaced from one another are provided in alignment with the respective associated through opening (20) in the wall (16a) of the door leaf (16), that in alignment with the through openings (30; 20) in the liner plate (14) and the wall (16a) of the door leaf (16) through openings (32) are provided in the fixing flange (22) through which the shanks (34b) of fixing screws (34) are passed, the end regions of the fixing screws remote from the screw head (34a) and provided with a screw thread being screwed in each case into a complementary matching thread (36b) in a clamping plate (36), the outer boundary of which corresponds substantially to the outer boundary of the opening (20) in the wall (16a) of the door leaf (16), and that between the flat face of the liner plate (14) facing the wall (16a) of the door leaf (16) and the boundary surfaces of the clamping plates (36) facing it there is disposed in each case a resiliently deformable fixing body (40) through which the shank (34b) of the fixing screw (34) passes and which in the undeformed state has an outer boundary which corresponds

substantially to the boundaries of the openings (20) in the wall of the door leaf as well as the clamping plate (36).

2. Hinge housing as claimed in Claim 1, characterised in that the through openings (30) in the liner plate (14) extend centrally through centring lugs (38) which project from the flat side of the liner plate (14) facing the wall (16a) of the door leaf (16) and of which the outer boundaries correspond in each case in a complementary manner to the boundaries of the respective associated through openings (20) in the door leaf wall (16a) and of which the length is at most equal to the thickness of the wall (16a).

3. Hinge housing as claimed in Claim 1 or 2, characterised in that a plurality of resilient latching tabs (26) are provided which project from the underside of the liner plate (14), are distributed over the circumference of the opening (24) thereof and engage in a latching manner around the opening (18) in the door leaf wall (16a) in the proper installation position.

4. Hinge housing as claimed in any one of Claims 1 to 3, characterised in that in the proper installation position in the opening (18) in the door leaf wall (16c) the cup part (12) of the housing has a shape which is flattened laterally on two opposing regions, that the underside of the base (12a) and the outer faces of the flattened area (12b) of the cup part (12) are engaged around by a thin-walled joint support (44) made from metal which has a U-shaped cross-section, which is displaceable relative to the cup part (12) parallel to the flattened area (12b) thereof and to the base (12a) and in which receiving bores (46a; 46b) are provided for the bearing lugs of toggle joints to be articulated pivotably in the hinge housing (10), that end regions of the arms (44b) of the U of the joint support (44) are passed through slots (48) extending in the direction of displacement thereof in the fixing flange (22) and project from the upper face of the fixing flange, wherein the receiving bores (46a) for at least one of the toggle joints to be articulated pivotably are constructed in the end regions of the arms (44b) of the U of the joint support (44) projecting from the fixing flange (22), and that means are provided for fixing the joint support (44) in selectable displacement positions relative to the cup part (12).

5. Hinge housing as claimed in Claim 4, characterised in that the receiving bores (46b) for at least one further toggle joint to be articulated pivotably on the hinge housing are preferably provided in regions of the arms (44b) of the U of the joint support (44) which engage around the outer faces of the cup part (12) and lie below the fixing flange (22), and that in the flattened wall regions (12b) of the cup part (12) in alignment with the receiving bores (46b) in the arms of the U of the joint support elongate through slots (50) are provided which extend in the direction of displacement of the joint support (44) and of which the width is substantially equal to the diameter of the appertaining receiving bore (46b) in the joint support (44).
6. Hinge housing as claimed in Claim 4 or 5, characterised in that at least a part of the latching tabs (26b) disposed in the region of the lateral flattened area (12b) of the cup part (12) in the proper installation position has in the free end region thereof a thickened head portion (28a) which projects in the direction towards the flattened areas (12b) and which is guided in each case into abutment on the outer flat faces of the arms (44b) of the U of the joint support (44) facing away from the cup part.
7. Hinge housing as claimed in any one of Claims 4 to 6, characterised in that in a bearing bore (52) of the web portion (44a) of the joint support (44) extending below the base (12a) of the cut part (12) there is rotatably mounted a lug (54) which projects from the underside of an eccentric portion (56) which is enlarged in diameter and offset with respect to the axis of rotation of the lug (54) and of which the peripheral surface is supported on the opposing long edges of an elongate transverse slot (5) in the base (12a) of the cup part (12).
8. Hinge housing as claimed in Claim 7, characterised in that the end of the eccentric portion (56) lying in the interior of the cup part bears an actuating head (60) like a screw head which is enlarged in diameter.